

C^1 STABLE SHADOWING DIFFEOMORPHISMS

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ABSTRACT. (Joint work with K. Moriyasu) Let f be a diffeomorphism of a closed C^∞ manifold. In this talk, we define the notion of the C^1 stable shadowing property for a closed f -invariant set, and it is shown that for the chain component $C_f(p)$ of f containing a hyperbolic periodic point p , $C_f(p)$ has the C^1 stable shadowing property if and only if $C_f(p)$ is the hyperbolic homoclinic class of p .